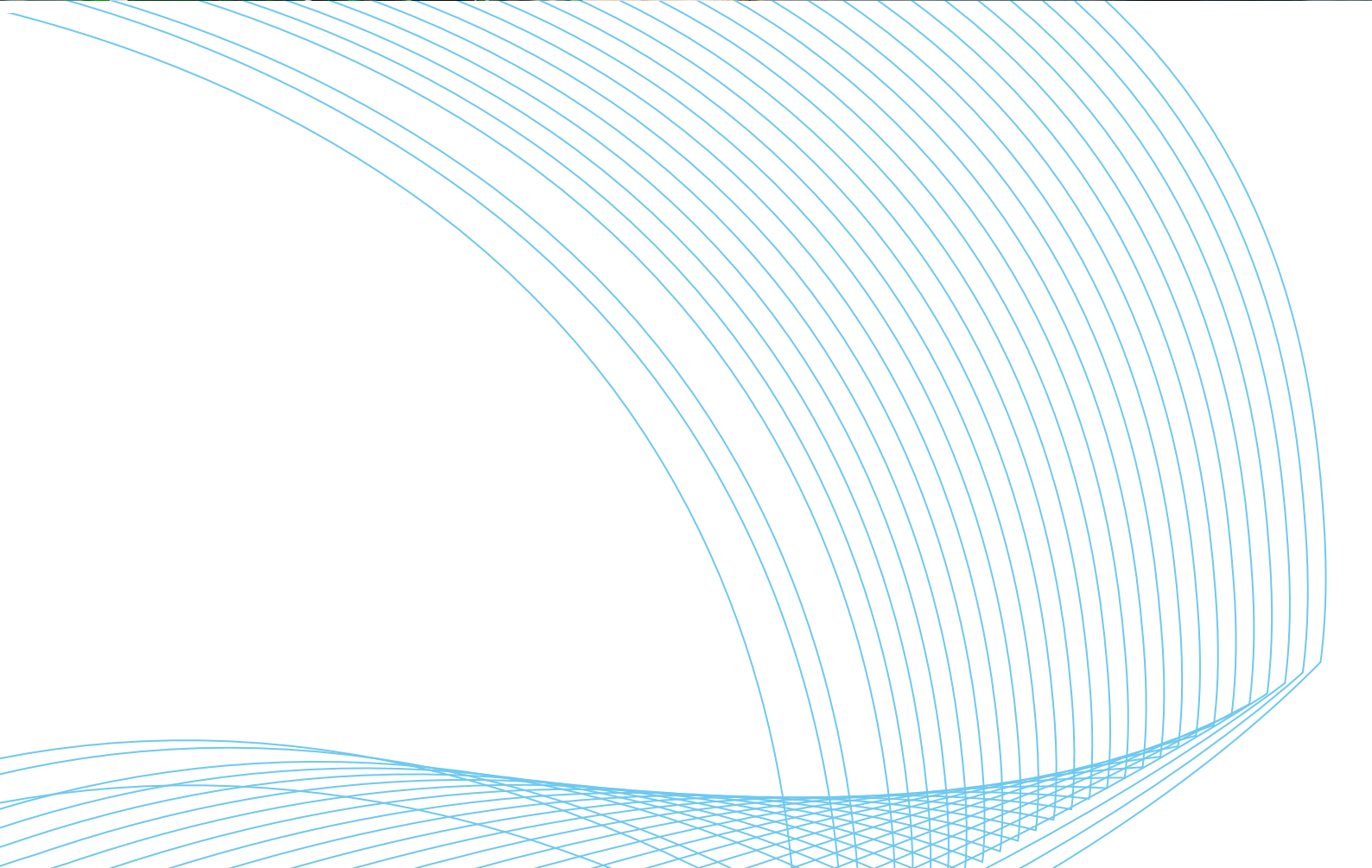
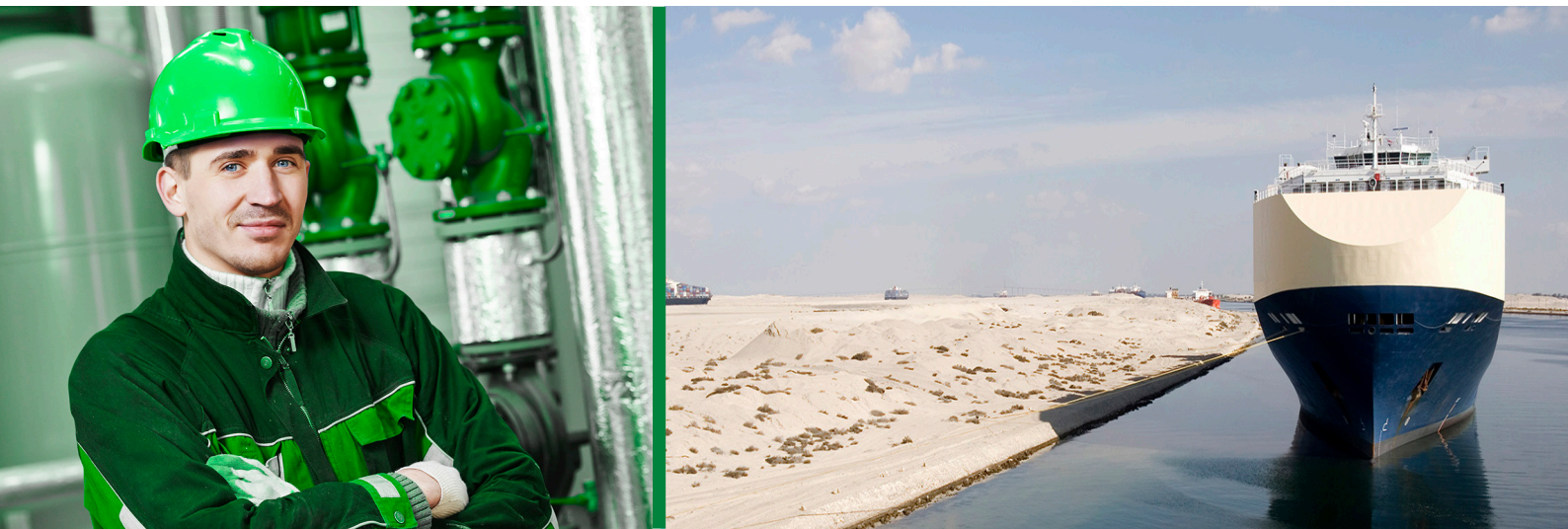




G7000 MULTI GAS MONITORING SYSTEM

COST EFFECTIVE EMISSION MONITOR
FOR ENVIRONMENTAL COMPLIANCE



COST EFFECTIVE



KEY FEATURES

- **Up to 5 sample points**
- **Low cost of ownership**
- **Durable and robust design for marine applications**
- **Automatic calibration without special gases**
- **Suitable for vibrations, high temperature & humid processes**
- **Choice between different materials**
- **Well-proven extractive system**
- **Unique double sample conditioning ensures fast response time**
- **Easy installation and maintenance - no alignment required**
- **Long service intervals**

APPROVALS AND CERTIFICATES

- **Fully compliant with MEPC.259 (68)**

WELL-PROVEN TECHNOLOGY

The G7000 can monitor the SO₂ and CO₂ concentrations in exhaust gas. It provides you with an accurate measurement of SO₂ in ppm, CO₂ in percent, as well as presents the SO₂/CO₂ ratio.

The gas analyzer is based on a non-dispersive infrared measurement technology, which has been well proven in many industrial applications.

Our unique double sample conditioning unit extracts moisture from the sample and ensures a fast response time. This unique feature allows us to sample from up to 5 different sample points per system.

COST EFFECTIVE CEMS

G7000 is a cost effective CEMS (continuous emission monitoring system). The modular design of the system makes it possible to monitor different gasses according to customer specification.

Furthermore, the system uses an air conditioned cooler therefore, the system has a very low consumption of compressed air, which significantly reduces the total cost of ownership.

All materials are specially selected to resist the wet and acidic exhaust gas after a scrubber. The robust design is aimed for harsh marine applications and designed for long intervals between service.

ENVIRONMENTAL COMPLIANCE

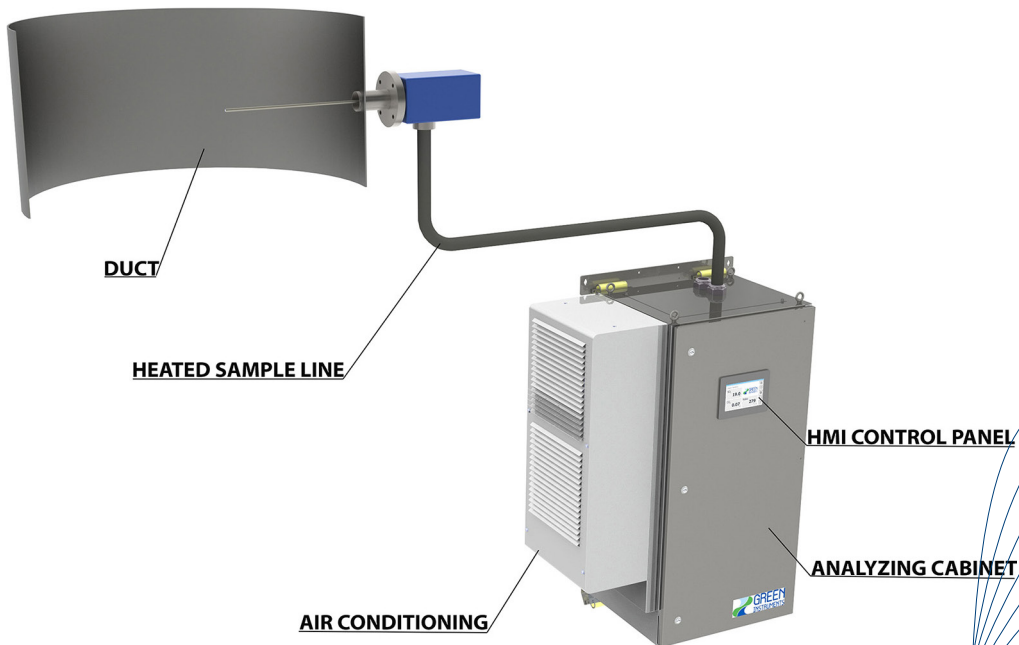


SIMPLE CALIBRATION AND MAINTENANCE

The G7000 is designed for easy calibration and requires minimal maintenance. The system is arranged with automatic calibration by means of an integrated optical filter together with instrument air. The system can also be verified by test gases in order to show compliance.

APPROVED AND COMPLIANT SOLUTION

The G7000 is fully compliant with IMO regulations - MEPC. 259(68). The G7000 together with Green Instruments' G6100 Water Monitoring System is a complete monitoring system according to MEPC. 259(68).



SPECIFICATIONS - G7000

MONITORING CABINET

Measuring principle	NDIR Other principles available upon request
Measurement range	CO ₂ : 0 - 10 %; optional : 0 - 25% SO ₂ : standard 0 - 200 ppm; optional 0 -1000 ppm Monitor other gasses upon request
Linearity	≤ 1 % of F.S.
Repeatability	≤ 0.5 % of F.S
Calibration	Zero Calibration: Automatic using compressed air Span Calibration: Automatic using inbuilt optical filters Possible to connect mixed test gasses for verification
Power supply	230 V AC - 50/60 Hz. - 16 A
Alarm outputs	2 alarm relays for SO ₂ /CO ₂ ratio level and system failure; NO/NC
External communication	Modbus TCP/IP
Material/Enclosure	Painted mild steel RAL 7035 / IP 55
Ambient temperature	Tested from 5 to 55 °C
Gas connections	Heated sample hoses from up to 5 probes Compressed air: 1/4" NPT Female. Air consumption approx. 1L/min per probe during calibration
Sample flow	Appx. 1.0 l/min.
Dimensions/weight	1260 x 955 x 530 mm (H x W x D)/185 kg

PROBES AND HEATED SAMPLE LINES

Power supply	Supplied from Monitoring Cabinet
Material	316L, Hastelloy, Duplex (To be specified upon order)
Flange dimension	DN65/PN10
Probe insert length	500 mm (Cut to length onsite)
Sample line length	4 - 6 - 9 m; optional length available upon request
Exhaust gas pressure	-50 - 500 mm WC dependent on material
Exhaust gas temperature	0 - 500 °C

Specifications subject to changes without notice

EUROPE

Green Instruments A/S
sales@greeninstruments.com
Erhvervsparken 29
9700 Brønderslev, Denmark
Tel: +45 96 45 45 00

AMERICA

Green Instruments USA, Inc
usa@greeninstruments.com
3640 NE 4th Avenue
Fort Lauderdale, FL-33334, USA
Tel: +1 954 613 0400